

Title (en)

AUXILIARY POWER UNIT HAVING A ROTARY FUEL SLINGER

Title (de)

HILFSAGGREGAT MIT EINER DREH-BRENNSTOFFSCHLEUDER

Title (fr)

UNITE D'ALIMENTATION AUXILIAIRE DOTE E D'UNE BAGUE DE PROJECTION DE COMBUSTIBLE ROTATIVE

Publication

**EP 1671065 B1 20111005 (EN)**

Application

**EP 04794460 A 20041007**

Priority

- US 2004033118 W 20041007
- US 51010403 P 20031008
- US 83719404 A 20040430

Abstract (en)

[origin: US2005076650A1] An auxiliary power unit (APU) includes a rotary fuel slinger, and a single-spool, two-stage turbine. The rotary fuel slinger receives a rotational drive force from the turbine, and a supply of fuel from a fuel source. The rotary fuel slinger injects the fuel into a combustor as a continuous "fuel sheet." As a result, fuel mixing and atomization inside the combustor is improved, which reduces emissions and pattern factor, which in turn increases turbine life.

IPC 8 full level

**F23R 3/38** (2006.01); **F23R 3/52** (2006.01); **F23R 3/54** (2006.01)

CPC (source: EP US)

**F23R 3/38** (2013.01 - EP US); **F23R 3/52** (2013.01 - EP US); **F23R 3/54** (2013.01 - EP US); **F05B 2220/50** (2013.01 - EP US)

Designated contracting state (EPC)

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DOCDB simple family (publication)

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